

Mr. Dan Flynn  
Land Permit Section  
Illinois Department of Conservation

C.C. (CONFIDENTIAL)  
 TO: [REDACTED]  
 (FIRST 7 PAGES)  
 FILED (CONFIDENTIAL)  
 October 10, 1980  
 MAY - IRABE  
 (CONFIDENTIAL)

**Abstract**

3/11/2  
HALL  
Sy  
File

OCT 14 1980

CC- Sy Levine, Maywood IEPA ✓



# Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

217/782-6760

Reference: Process Alliance Partnership - 19704521

August 8, 1980

Process Alliance Partnership  
Two Salt Creek Lane  
Hinsdale, Illinois 60521

Attention: Donald Matschke

Gentlemen:

The Illinois Pollution Control Board requires that solid waste management sites engaged in the process of storage, processing or disposal of solid wastes are subject to permit requirements pursuant to Rules 201, 202 and 203 of Chapter 7 of the Rules and Regulations adopted by the Illinois Pollution Control Board. Since your facility has not submitted a permit application and therefore has not received a permit from the Illinois Environmental Protection Agency, Division of Land/Noise Pollution Control, we hereby inform you that any registration/authorization numbers issued by this Agency authorizing your site to accept waste from particular generators shall expire within ninety (90) days from the date of your receipt of this letter.

In order for your facility to obtain the necessary permits, it will be necessary that you submit a permit application within sixty (60) days from the date of your receipt of this letter. A permit review of your application will be completed before this Agency deems the registration/authorization numbers to be voided. The required application form is enclosed herein. If the permit review process should take this Agency longer than thirty (30) days, your registration/authorization numbers shall remain valid until such review is completed.

The permit application should contain the following additional information in addition to the information provided on the application for permit to develop a solid waste management site:

1. A flow diagram and blue prints of the storage, treatment, and process.
2. A description of the process including as to how the individual waste components are processed before being discharged or disposed of into the air, water and land.

Page 2

3. Details of any contingency plans or procedures to cope with any accidents or spills involving special wastes. Any embankment, dikes, internal drainage system or the like should be shown on your plan sheets.
4. Methods used to screen, analyze the waste, frequency of such analysis, and degree of variability accepted of each component in the waste.
5. A listing of all other permits applied for and/or obtained by the facility.

If no on-site disposal is requested or planned at your facility, Part III -- Site Characteristics and Part IV -- questions 25 and 26 may be omitted.

The application must be signed by the owner(s), the applicant(s), and a registered professional engineer. All signatures must be properly attested. The president of any corporation must sign the application or give his written authority to another person.

Please reference all site code and registration/authorization numbers assigned with any submissions or any correspondence concerning this matter. If you have any questions or if we can be of any assistance to you in preparation of this permit application, please contact us or one of our Regional Offices in your area.

Very truly yours,



Rama K. Chaturvedi, P.E., Manager  
Special Waste Unit  
Residual Management Section  
Division of Land/Noise Pollution Control

RKC:MDR:jb/0192H/2-3

Enclosures: Environmental Protection Act  
Solid Waste Rules and Regulations  
Special Waste Hauling Regulations  
(2) Application for Permit to Develop a Solid Waste  
Management Site

cc: Northern Petrochemical (997204)

## PAP SUPPLEMENTAL INFORMATION

1. Exhibit 3 is a flow diagram of the storage, treatment and process facilities of PAP. This PAP process is proprietary and patent applications are pending.
2. PAP has a contract with Northern Petrochemical Company (NPC) to process a spent caustic scrubber stream. The scrubber stream is produced as a by-product from the production of ethylene which NPC produces for the manufacture of polyethylene and ethylene glycol (antifreeze). The spent scrubber stream contains approximately 95 percent water, 2 to 5 percent sodium hydroxide, a few percent sodium carbonate, 1000-2000 ppm of sodium sulfide, trace sodium cyanide, and small quantities of dissolved and separate phase organics that are side products from the manufacture of ethylene,

Pap receives the spent scrubber solution in a PAP tractor-trailer that travels the approximate 15 mile route from NPC either along Interstate 80 or Route 6. The spent scrubber solution is transferred to storage tanks where a nominal 24 hour storage is accomplished. Any separate phase organics present are floated during this period and accumulate in an odorous oily float layer on the surface of the tank contents. The remaining scrubber solution, usually in excess of 99 per cent, is drawn from the bottom of the storage tank and submitted to further processing.

After a number of subsequent filling and floating cycles, the oily layer gradually accumulates to a few inches of thickness. At this point the oil is transferred to a tank for transport and sale to an organic reclaiming company.

The supernatant scrubbing solution is drawn from the bottom of the storage tanks and reacted with spent pickling acid or etchant from the steel or electronic industries. The dissolved metal ions in the pickling acid or etchant react preferentially with the sulfide in the scrubber solution to produce solid phase metallic sulfides. Additional metallic ion reacts with the trace cyanide content of the scrubber solution to form solid phase complex cyanides. The acidity of the spent pickle liquor or etchant serves to simultaneously neutralize the basicity of the scrubber solution. Additional quantities of organics break from solution during these precipitation reactions and adsorb on the surface of the precipitated solids. Excess metallic ion is converted to the respective metallic hydroxide.

The unique advantages of the process are 1) sulfide is converted to an innocuous solid such as ferrous sulfide without contributing any odor problem, 2) cyanides are removed from the scrubber solution and inactivated in a solid phase, 3) organics are removed in two stages to produce a relatively deodorized scrubber solution and 4) some reclamation of organic values is accomplished.

After the initial sequence of process operations the neutralized scrubber solution is brought to a final pH of 9-9.5, conditioning polymers are added to effect flocculation of the solids, decantation of clear supernatant is accomplished, addition of diatomaceous filter aid is added as necessary as is additional conditioning polymer when necessary and finally the liquid-solid slurry

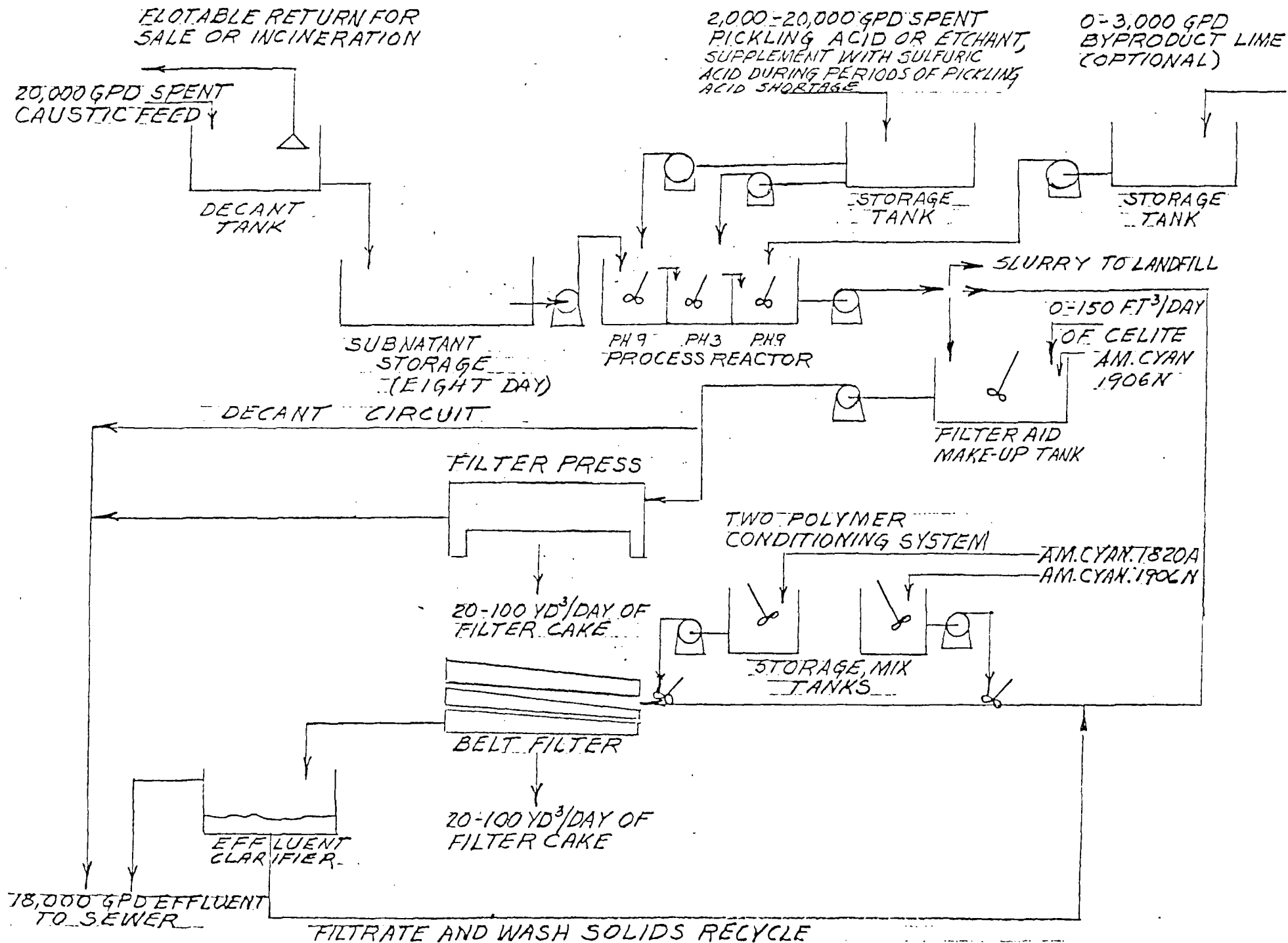


EXHIBIT 3-PLAN OF PAP SPENT CAUSTIC SCRUBBER PROCESS

is fed to one of two filters to produce a clear filtrate and a dry filter-cake. The clear decant and filtrate are of acceptable quality for discharge to a municipal sewage treatment system while the filter-cake is non-hazardous and can be managed by most land-fills.

Options for this process include virgin acid supplementation when spent pickling acid or etchant and supplies are low due to down-turns in the economy and provision for abundant use of spent pickle-liquor and etchant when those materials are abundant. In the latter case, intermediate pH values of 3 or lower may be achieved with final discharge pH of 9-9.5 attained by the use of byproduct lime.

A future byproduct resource use for the resulting filter-cake is a possibility which will be explored.

3. Spills in the outside yard facilities will not occur in the permanent PAP facility currently under construction. Unloading and transfer facilities are completely closed and vapor-tight. Over-filling of storage tanks will only result in recycling of the transferred material back to the source tank-trailer. Any occasional spills at the connection terminals will be contained in a diked area for prompt recovery.

The concentrated, virgin acid storage is underlain by a diked area. Pumping provisions are available, in the unlikely event of a spill, to transfer spilled acid into the inside processing tanks.

Spills inside the PAP processing building will be contained by appropriate diking with recovery of spilled materials accomplished by means of a combination of sump pumps and wet-vacuums. Any spilled materials will be recycled to the process or, in instances when compatible with sewer acceptance standards, will be discharged to the sewer system.

If, for any reason, a spill should become uncontrolled, either inside or outside the building, the site topography will control the direction of flow towards the sea-wall. There the spill would be contained and would be prevented from accessing surface water until recovery.

4. Each incoming tanker-load of spent caustic scrubber solution is examined for specific gravity simultaneous with transfer to storage. This provides an insight into organic concentrations and a preliminary indication of solution concentrations.

Subsequently, each charge to the processing system is examined for and adjusted for metallic ion stoichiometry in order to guarantee that all sulfide and cyanide concentrations are reacted. Such tests are routinely made eight to twelve times per 24 hour day.

The spent caustic scrubber solution incoming concentrations of sodium hydroxide and sulfides may vary over long time periods such as days to weeks by a factor of two. On a batch to batch or day to day basis such variation is not encountered. The specific gravity measurements provide early indications for such changes.

5. Other IEPA permits applied for and obtained by the PAP facility are as follows:

- Chicago/Land and Lakes #3 landfill permit for management of PAP filter-cake, Auth. No. 801485
- Joliet/Lockport trucking landfill permit for management of PAP filter-cake, Auth. No. 801485
- Chicago/Land and Lakes #3 landfill permit for management of PAP slurry, Auth. No. 802070

Construction and operation permit for water pollution control facilities described as follows:

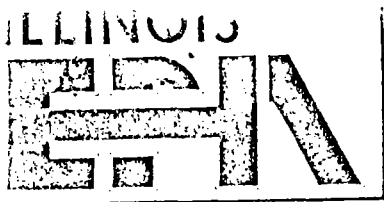
Installation of an industrial process to treat a spent caustic scrubber stream consisting of a decant tank, supernatant storage tank, pH process reactor tanks, storage tank, a plate and frame filter press, a belt filter, two polymer conditioning systems, an effluent clarifier and all necessary piping and pumping designed to treat approximately 20,000 gallons per day of spent caustic. Discharge of approximately 18,000 gpd (180 P.E.) to an interceptor sewer located between Route 6 and the DesPlaines River thence tributary to the Joliet Eastside STP. Permit No.: 1980-EA-0827

6. The IEPA in a July 23, 1980 letter from Sy Levine, Maywood Office has raised the possibility that IEPA air pollution permits might be required at PAP, Joliet. Two points were cited in the letter, which is herein appended, and will now be discussed.

Illinois Air Pollution Cont Reg 103(b) requires citation of PAP by the agency for a specified air contaminant for which there exist IPCB emission standards or other specific limitations. To the best of PAP's knowledge there exists no such air pollution causing emission from their Joliet processing facility or equipment.

PAP has been advised by counsel that the IPCB has previously held that the Illinois Environmental Protection Act Section 9(a) is a general prohibition, and that the IEPA has an obligation to specify allegedly offensive omissions in order to implement this section. A reference for this IPCB opinion is EPA vs. COMMONWEALTH EDISON COMPANY, IPCB #70-4; also IPCB Opinions, Vol. 1, p. 207 (specifically p. 209 - 211). In that spirit, if there is a specific contaminant which PAP is emitting in such a way to cause air pollution, please advise us of that contaminant. PAP is aware of none.

While in the past there may have been odor problems, PAP has now substantially eliminated these problems. The further steps PAP is taking in their permanent facilities will totally eliminate any such problem.



Environmental Protection Agency  
1701 S. First Street Maywood, IL. 60153

July 23, 1980

Mr. Al Tenney  
Processed Alliance Partnership  
608 Railroad Street  
Joliet, Illinois 60436

Dear Mr. Tenney:

The Illinois Environmental Protection Agency conducted an investigation of your facility on July 18, 1980 and found the following apparent violations:

Illinois Air Pollution Control Regulations  
Rule 103(b) which states that no person  
shall cause or allow the operation of  
any new emission source without first  
obtaining an Operating Permit from the  
Agency. Such sources include two (2)  
filter presses, a reactor vessel and  
storage tanks.

Illinois Environmental Protection Act  
Section 9(a) which states that no  
person shall cause or threaten or allow  
the discharge or emission of any con-  
taminant into the atmosphere in suffi-  
cient quantities and of such character-  
istics and duration as to be injurious  
to human, plant, or animal life, to  
health, or to property, or to unreason-  
ably interfere with the enjoyment of  
life or property.

This information is provided to allow you to verify or dispute the  
Agency's findings.



July 23, 1980  
Page Two

Mr. Al Tenney  
Processed Alliance Partnership

If you have any questions, please do not hesitate to contact us.

Sincerely,

*William Withrow*

William Withrow  
Environmental Protection Specialist

*Sy Levine*  
Sy Levine, P.E.  
Regional Manager-FOS/DAPC

WW/SL/sl

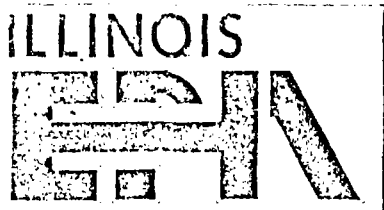
cc: Miles Zamco  
Peter Orlinsky  
Permit Section  
Region I File

*As noted above to SY LEVINE on 7/26 - He will close book*

7. In the operation of the PAP Joliet facilities, separate non-hazardous liquid and non-hazardous solid streams are produced. The two streams are separated for reasons of economics inasmuch as the management of a given amount of volume in a landfill is more costly than the management of a comparable volume in a municipal waste treatment plant. For that reason PAP separates and delivers a clear effluent to a treatment plant and only the necessary amount of solid volume to a landfill.

The neutral slurry that is produced after precipitation of the sulfides, cyanides and organics but before the addition of conditioning chemicals and the filtration process is also a non-hazardous stream, having undergone all the inactivation reactions. In other words, the sum of the liquid and the solid streams is no more or less hazardous than the individual parts. Thus, a non-hazardous landfill that is qualified to accept liquid products would be qualified to accept the neutral slurry product from the PAP Joliet process.

While PAP generally is not interested in this mode of operation for economic reasons, there are times when it would be prudent to have this option available for contingency use. Taking a filter out of operation for maintenance could be one of these times. PAP will be applying to IEPA for a slurry landfill management permit sometime in the future.



# Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

## APPLICATION FOR PERMIT TO DEVELOP A SOLID WASTE MANAGEMENT SITE

Waste  
Check if  
Applicable

- ☒ Storage
- ☐ Transfer
- ☒ Processing
- ☒ Recovery
- ☐ Incineration
- ☐ Other

In Accordance With The Environmental Protection Act

All information submitted as part of the Application is available to the public except when specifically designated by the Applicant to be treated confidentially as regarding a trade secret or secret process in accordance with Section 7(a) of the Environmental Protection Act.

APPLICATION MUST BE SUBMITTED IN DUPLICATE

### PART I - APPLICANT INFORMATION

#### A. Site Identification

1. Name of Applicant PROCESS ALLIANCE PARTNERSHIP  
(Person responsible for operation)

2. Address of Applicant 608 RAILROAD STREET  
(Street, P.O. Box, or R. R. #)

JOLIET ILLINOIS 60436  
City State Zip Code

Telephone: 815-722-0900  
(Area Code) (Number)

3. Name of Land Owner ROBERT BARKER  
(If same as above, so indicate)

4. Address of Land Owner 900 RAILROAD STREET  
(Street, P.O. Box, or R. R. #)

JOLIET ILLINOIS 60436  
City State Zip Code

STPR 5/15/79  
LPC-7 Rev. 5/79

5. Name of Site PROCESS ALLIANCE PARTNERSHIP
6. Address of Site 608 RAILROAD STREET  
(Street, P.O. Box, or R. R. #)

JOLIET ILLINOIS 60436  
City State Zip Code

WILL County JOLIET Township

7. Land ownership (Check Applicable Boxes)

- ( ) Presently Owned by Applicant (✓) To be Leased by Applicant For 1 Years (5, 1 Yr.)  
( ) To Be Purchased by Applicant ( ) 0.75 Years of Lease Remaining: 7/01 (OPTIONS FOR RENEWAL)  
Termination date of lease  
Operated by: Ill. Corporation ( ) Partnership (✓) Government ( )  
Individual ( ) Other ( )

B. SITE BACKGROUND (Check Applicable Box or Boxes)

8. (✓) This is an existing operation begun JULY (mo.) 1980 (yr.)  
( ) this is a proposed operation.  
( ) This is a proposed extension of an existing adjacent operation:  
Illinois E.P.A. Permit No. \_\_\_\_\_:  
( ) No Illinois E.P.A. Permit. (HAVE TREATMENT PERMIT, LANDFILL PERMIT FROM IEPA)

PART I I - LOCATION INFORMATION

A. ZONING AND LOCAL REQUIREMENTS

9. Present zoning classification of site I2
10. Does present zoning of site allow the proposed usage?  
(✓) Yes ( ) No.
11. Restrictions (if any) \_\_\_\_\_

12. Check applicable boxes which describe the use of adjacent properties surrounding site.

	Residential	Commercial	Industrial	Agricultural	Others*
a. North	( )	( )	(✓)	( )	( )
b. East	( )	( )	(✓)	( )	( )
c. South	( )	( )	(✓)	( )	( )
d. West	( )	( )	(✓)	( )	( )

\*SPECIFY USE CLASSIFICATION INDUSTRIAL

13. a. Are there any permits, operational requirements, licenses, or other requirements or restrictions by any municipality, planning commission, county, county health department, state agency, or other governing body?  
( ) Yes ( ) No If yes, List below. BUILDING PERMITS INCLUDING  
EXCAVATION PERMIT, SEWER PERMIT, FOUNDATION PERMIT, PLUMBING &  
PIPING PERMIT, ELECTRICAL PERMIT (IN PROCESS)
- b. Have these requirements, licenses or restrictions been approved by the agency or governing body having jurisdiction?  
(✓) Yes ( ) No
- c. If the answer to (b) is yes, include photocopies of supporting documents.

B. LOCATION

14. Attach a copy of the United States Geologic Survey (U.S.G.S.) topographic quadrangle map of the area which contains the site. (7.5 minute quadrangle, if published).

Quadrangle Map Provided: JOLIET 1973  
Name Date

15. a. Outline on the U.S.G.S. topographic quadrangle map the location and extent of the site.
- b. Provide a legal description of the site. (Typewritten on attached sheet.)

0.5 Acres in NW Quarter, SE Quarter, SW Quarter,  
of Section 16, Township 35N,  
Range 10E, 3D P.M.

16. General characteristic: (Flood Plain, Hillside, Field, Strip Mine, Quarry, Gully, Gravel Pit, Swamp, etc.)

Briefly describe: FILLED FLOOD PLAIN THAT IS GENERALLY ISOLATED

FROM OVERBANK FLOODING BY THE DES PLAINES RIVER SEA-WALL AND THE REGULATION

SUPPLIED BY THE BRANDEN FORD LOCK AND DAM WHICH IS APPROX. 0.5 MILES SOUTH OF PAP.

17. Plot the following information on the U.S.G.S. quadrangle topographic map, if within the site or adjacent to the outer perimeter of facility:

- Wells (domestic, industrial, etc.)
- Public water sources (wells, stream, etc.)
- Residences or residential areas, commercial facilities, sewage treatment facilities, industries, institutions, etc.
- Other treatment facilities not shown on topographic map such as diverted streams, strip mines, ponds, etc.

If scale of quadrangle map is not sufficient, show the above items on a separate topographic map (See Part IV - A - 23).

### PART III - SITE CHARACTERISTICS (NOT APPLICABLE)

To Be Completed If Land Disposal Of Waste On Site Is Requested

#### A. GEOLOGY - HYDROLOGY

NOTE: The instructions for this Part of the Application should be read carefully prior to initiating the data-gathering program for the site.

Provide subsurface information in comprehensive detail, sufficient to allow thorough evaluation of the hydrologic and geologic conditions beneath and surrounding the site. This data must fully describe the hydrogeologic interrelationships of the landfill facility, local ground waters, and surface waters. All information requested in sections 18 through 22 should be integrated and presented as a detailed hydrogeologic report.

#### B. GEOLOGY

##### GENERAL GEOLOGIC SETTING

18. Provide a brief description of the general geography of the region in which the site is located, and a summary of the hydrogeologic conditions typical of that portion of Illinois.

APPLICATION FOR A DEPARTMENT OF THE ARMY PERMIT  
For use of this form, see EP 1145-2-1

The Department of the Army permit program is authorized by Section 10 of the River and Harbor Act of 1899, Section 404 of P. L. 92-500 and Section 103 of P. L. 92-532. These laws require permits authorizing structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Information provided in ENG Form 4345 will be used in evaluating the application for a permit. Information in the application is made a matter of public record through issuance of a public notice. Disclosure of the information requested is voluntary; however, the data requested are necessary in order to communicate with the applicant and to evaluate the permit application. If necessary information is not provided, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and checklist) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

*CHICAGO DISTRICT, US ARMY COE HAS GIVEN VERBALE APPROVAL TO THIS APPLICATION (JAMES DUNN, CHGO. DIST.); CONFIRMING LETTER IS TO FOLLOW*

1. Application number (To be assigned by Corps)	2. Date <div style="text-align: center; font-size: 1.2em;">             26      9      80              Day      Mo.      Yr.           </div>	3. For Corps use only.								
4. Name and address of applicant. <i>PROCESS ALLIANCE PARTNERSHIP 608 RAILROAD ST. JOLIET, ILLINOIS 60436</i>  Telephone no. during business hours A/C (815) <u>722-0900</u> A/C (    ) _____	5. Name, address and title of authorized agent. <i>DONALD E. MATSCHKE D.E. MATSCHKE COMPANY TWO SALT CREEK LANE HUNSDALE, ILLINOIS 60521</i>  Telephone no. during business hours A/C (312) <u>654-1970</u> A/C (    ) _____									
6. Describe in detail the proposed activity, its purpose and intended use (private, public, commercial or other) including description of the type of structures, if any to be erected on fills, or pile or float-supported platforms, the type, composition and quantity of materials to be discharged or dumped and means of conveyance, and the source of discharge or fill material. If additional space is needed, use Block 14.  <div style="font-style: italic;">             CONNECTION OF AN EIGHT INCH DIAMETER, DUCTILE IRON SEWER WITH MECHANICAL JOINTS TO AN EXISTING CONCRETE MANHOLE STRUCTURE TRIBUTARY TO THE CITY OF JOLIET SANITARY SEWER AND INTEGRAL WITH THE WALL STRUCTURE FORMING THE WEST BANK OF THE DES PLAINES RIVER IN THE CITY OF JOLIET.           </div>										
7. Names, addresses and telephone numbers of adjoining property owners, lessees, etc., whose property also adjoins the waterway.  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <i>JOLIET PROJECT OFFICE U.S. ARMY CORPS OF ENGINEERS 622 RAILROAD STREET JOLIET, ILLINOIS 60434</i> </div> <div style="width: 45%;"> <i>CHARLES BORANI 1015 HELEN AVE. JOLIET, ILLINOIS 60433</i> </div> </div>										
8. Location where proposed activity exists or will occur. <table style="width:100%; border: none;"> <tr> <td style="width:50%; vertical-align: top;">           Address:  <u>608 RAILROAD STREET</u>            Street, road or other descriptive location  <u>JOLIET, ILLINOIS 60436</u>            In or near city or town   <div style="display: flex; justify-content: space-between;"> <span><u>WILL</u> County</span> <span><u>ILLINOIS</u> State</span> <span><u>60436</u> Zip Code</span> </div> </td> <td style="width:50%; vertical-align: top;">           Tax Assessors Description: (If known)  <table style="width:100%; border: none;"> <tr> <td style="border-bottom: 1px solid black; width: 33%;">Map No.</td> <td style="border-bottom: 1px solid black; width: 33%;">Subdiv. No.</td> <td style="border-bottom: 1px solid black; width: 33%;">Lot No.</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Sec.</td> <td style="border-bottom: 1px solid black;">Twp.</td> <td style="border-bottom: 1px solid black;">Rge.</td> </tr> </table> </td> </tr> </table>			Address: <u>608 RAILROAD STREET</u> Street, road or other descriptive location <u>JOLIET, ILLINOIS 60436</u> In or near city or town  <div style="display: flex; justify-content: space-between;"> <span><u>WILL</u> County</span> <span><u>ILLINOIS</u> State</span> <span><u>60436</u> Zip Code</span> </div>	Tax Assessors Description: (If known) <table style="width:100%; border: none;"> <tr> <td style="border-bottom: 1px solid black; width: 33%;">Map No.</td> <td style="border-bottom: 1px solid black; width: 33%;">Subdiv. No.</td> <td style="border-bottom: 1px solid black; width: 33%;">Lot No.</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Sec.</td> <td style="border-bottom: 1px solid black;">Twp.</td> <td style="border-bottom: 1px solid black;">Rge.</td> </tr> </table>	Map No.	Subdiv. No.	Lot No.	Sec.	Twp.	Rge.
Address: <u>608 RAILROAD STREET</u> Street, road or other descriptive location <u>JOLIET, ILLINOIS 60436</u> In or near city or town  <div style="display: flex; justify-content: space-between;"> <span><u>WILL</u> County</span> <span><u>ILLINOIS</u> State</span> <span><u>60436</u> Zip Code</span> </div>	Tax Assessors Description: (If known) <table style="width:100%; border: none;"> <tr> <td style="border-bottom: 1px solid black; width: 33%;">Map No.</td> <td style="border-bottom: 1px solid black; width: 33%;">Subdiv. No.</td> <td style="border-bottom: 1px solid black; width: 33%;">Lot No.</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Sec.</td> <td style="border-bottom: 1px solid black;">Twp.</td> <td style="border-bottom: 1px solid black;">Rge.</td> </tr> </table>	Map No.	Subdiv. No.	Lot No.	Sec.	Twp.	Rge.			
Map No.	Subdiv. No.	Lot No.								
Sec.	Twp.	Rge.								
9. Name of waterway at location of the activity.  <div style="font-style: italic; font-size: 1.2em;">DES PLAINES RIVER</div>										

10. Date activity is proposed to commence. 10/1/80  
Date activity is expected to be completed 10/1/80

11. Is any portion of the activity for which authorization is sought now complete? ☒ YES ☐ NO  
If answer is "Yes" give reasons in the remark section. Month and year the activity was completed 8/80  
8/80 Indicate the existing work on the drawings.

12. List all approvals or certifications required by other federal, interstate, state or local agencies for any structures, construction, discharges, deposits or other activities described in this application.

Issuing Agency	Type Approval	Identification No.	Date of Application	Date of Approval
EPA	PERMIT	1980-EA-0827	6/80	6/80
CITY OF JOLIET	"	NONE	7/80	7/80

13. Has any agency denied approval for the activity described herein or for any activity directly related to the activity described herein?

☐ Yes ☒ No (If "Yes" explain in remarks)

14. Remarks or additional information.

TEMPORARY CONNECTION HAS BEEN MADE BY MEANS  
OF DISCHARGE HOSE TO THIS MANHOLE BY PERMISSION  
OF CITY OF JOLIET

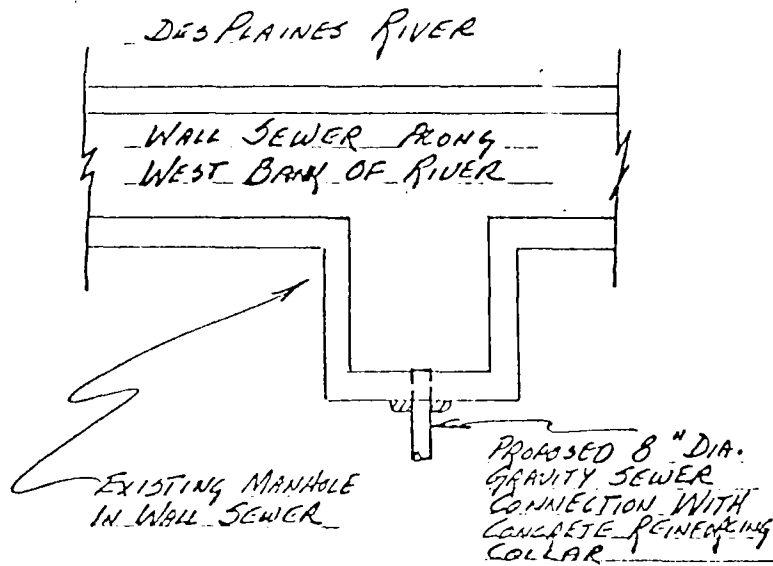
15. Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Donald E. Matlock  
Signature of Applicant or Authorized Agent

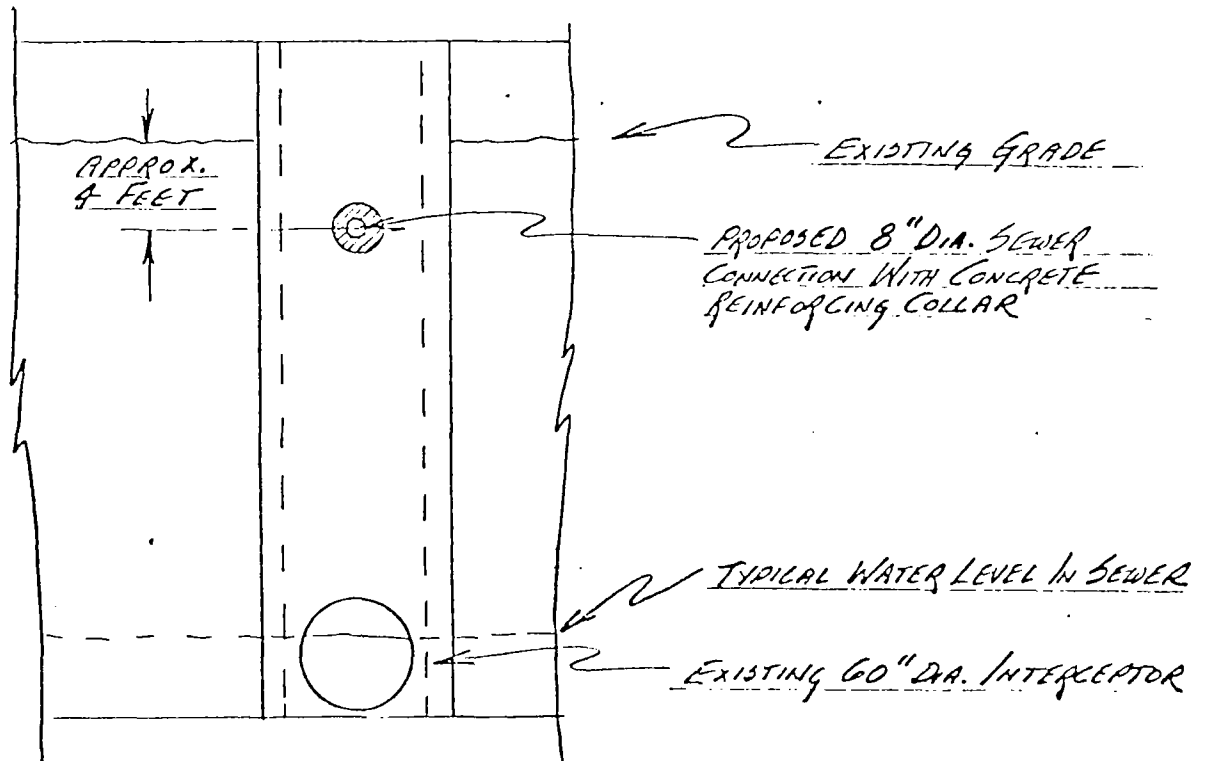
The application must be signed by the applicant; however, it may be signed by a duly authorized agent (named in Item 5) if this form is accompanied by a statement by the applicant designating the agent and agreeing to furnish upon request, supplemental information in support of the application.

18 U. S. C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of The United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both. Do not send a permit processing fee with this application. The appropriate fee will be assessed when a permit is issued.





VICINITY MAP



LIST OF ADJACENT PROPERTY OWNERS

NO.	NAME	ADDRESS
1.	JOLIET PROJECT OFFICE U.S. ARMY CORPS OF ENGINEERS	622 RAILROAD ST. JOLIET, ILLINOIS 60430
2.	CHARLES BORONI	1015 HELEN AVE. JOLIET, ILLINOIS 60433
3.		
4.		

PROJECT DESCRIPTION:

SEWER CONNECTION

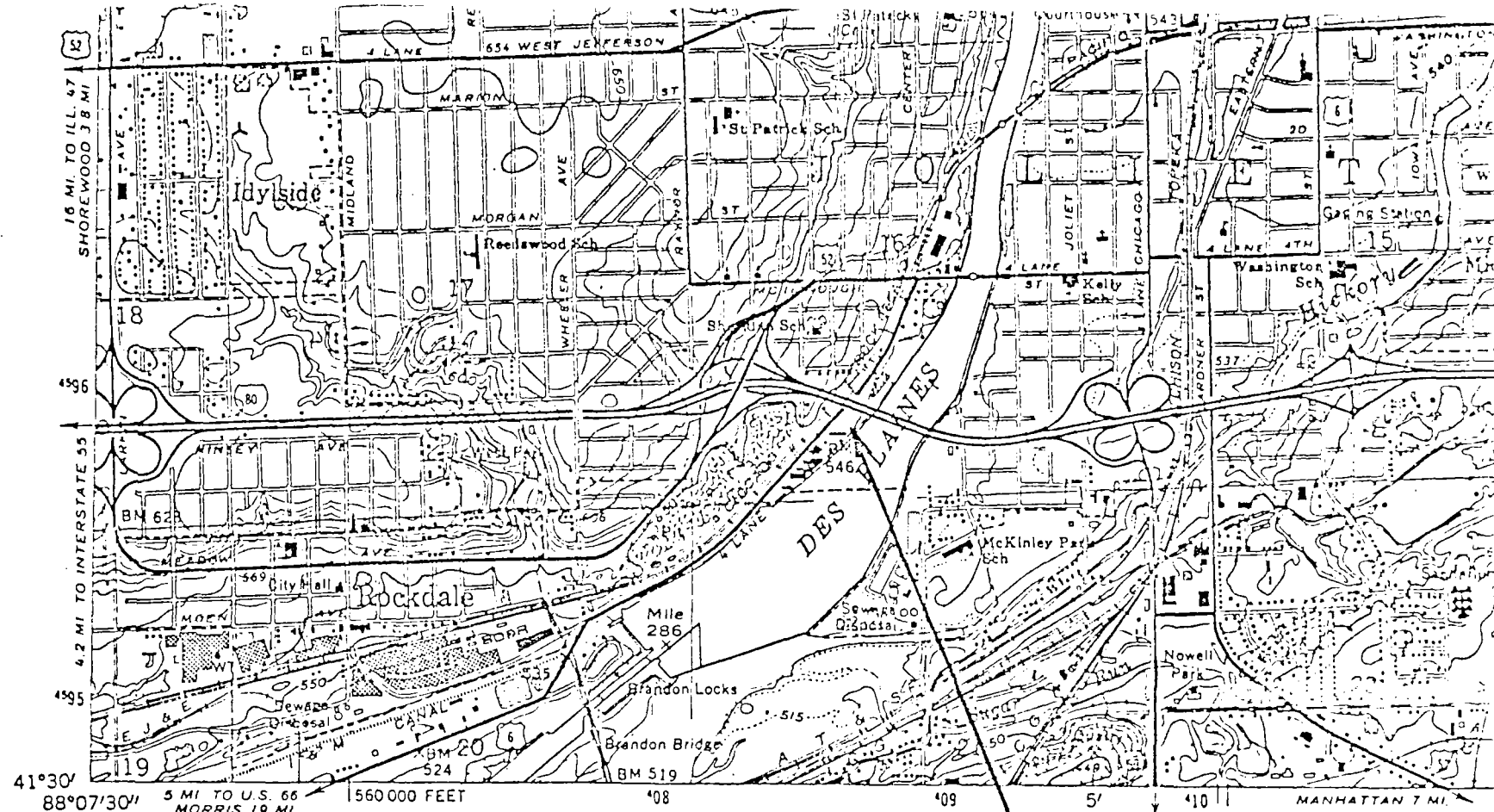
LOCATION:

WEST BANK OF DES PLAINES R.  
JOLIET, ILLINOIS

SHEET OF

C182

(CHANNABONI)  
3366 1 NW



# Permit:- Authorizing Sewer or Water Service Connection to the City of Joliet Systems

No 3963

Date SEPT 29 1980

Applicant (Plumber) PRIDE PLBG

Owner PROCESS ALLIANCE

Address 608 RAILROAD ST. Lot Number       

Location of Connection SAME

Permission is hereby granted above Applicant to make connection to City System for the following:

☒ Sewer Service — 700

☐ Meter —

☐ Water Service —

\$ 700 TOTAL

Work to start 9-30-80 Approved Del Frey

Work to be completed 10-3-80

WHITE COPY TO APPLICANT  
PINK COPY TO ACCOUNTS AND FINANCE  
YELLOW COPY TO FIELD ENGINEER  
GREEN COPY TO PLUMBING DEPT.  
BLUE COPY TO CITY ENGINEER

3 PCI 11-76

# Department of Building

PLUMBING PERMIT NO. 3897

LOCATION OF BUILDING

608 Railroad

ISSUED

10-10

19

50

TO

Don Garland

Fred Baggart

Plumbing Inspector

- CITY OF JOLIET -

THIS CARD MUST BE DISPLAYED ON BUILDING

# EXCAVATION PERMIT

## CITY OF JOLIET

THIS PERMIT MUST BE AVAILABLE AT THE EXCAVATION SITE

Date SEPT 29 1980

Nº E 1768

Excavation Contractor PRIDE PLBG PHONE 485-6111

Address 621 S. PINE ST. NEW LENOX, ILL

Surety Bond No. \_\_\_\_\_ Name of Co. \_\_\_\_\_

Location Of Excavation 608 RAILROAD ST

Name Of Owner PROCESS ALLIANCE Address SAME

PERMISSION IS HEREBY GRANTED TO EXCAVATE FOR PURPOSES INDICATED BELOW:

☒ New Sewer Connection

☐ New Water Connection

☐ Sewer Service Replacement

☐ Water Service Replacement

☐ Sewer Service Extension

☐ Water Service Extension

☐ Other TO 60" CORP OF ENG. SEWER

*PAID  
9-30-80  
CHECK-4718*

ALL CONNECTIONS MUST BE MADE BY A LICENSED PLUMBER AND APPROVED BY THE CITY PLUMBING INSPECTOR OR CITY SEWER INSPECTOR.

Work To Start 9-29 1980 Work To Be Completed 10-3 1980

Water Connection Permit No. \_\_\_\_\_ Sewer Connection Permit No. 3963

Fee 20<sup>00</sup> Approved: Del. Fry


City Engineer

I agree to comply with the rules and regulations as stated on the reverse side of this permit.

Signature of Applicant \_\_\_\_\_

d/b/a \_\_\_\_\_

APPLICANT'S COPY

 PCI

CONTRACTOR TO CALL  
726-2401 ON DATE OF  
STREET EXCAVATION

ALL STREETS AND SIDEWALKS  
MUST BE REPAIRED WITHIN  
10 DAYS OF ISSUANCE OF  
THIS PERMIT

# Department of Building

PERMIT No.

*P 2929*

LOCATION OF BUILDING

*608 Railroad St*

ISSUED

*9-26*

19

*80*

TO

*Modern Builders*

THIS PERMIT DOES NOT INCLUDE  
ELECTRICAL, HEATING, PLUMBING  
OR SIGN PERMITS

*Paul E. Egan*

Building Inspector.

**- CITY OF JOLIET -**

THIS CARD MUST BE DISPLAYED ON BUILDING

*Concrete  
Supports*

PART I,B,15,b

LEGAL DESCRIPTION OF PAP SITE

Lot Number 7 and 8 in Block 118 and the vacated north and south alley lying between said lots and Block 118 school section addition to Joliet, except that part of said Lot 7 occupied by Railroad Street; also that part of vacated Cherry Street lying between the east line of said Lot 8 and the said westerly retaining wall of said Illinois deep waterway, all in City of Joliet, Will County.

Parcel No. 7-16-323-003, 36.57 x 38.87 x 313.45 x 88.72 x 280.5

## TYPE AND EXTENT OF SUBSURFACE MATERIALS

19. Provide a complete log (description) of each boring made during the exploratory program, and include all other pertinent data so obtained.
20. Include the following information regarding the bedrock, if encountered during the boring program:
  - a. Depth(s) to bedrock.
  - b. Lithology (physical character) and hydrologic characteristics of the bedrock formation.
  - c. Name and age of the formations encountered during the boring operation and (or) which crop out on or adjacent to the site.

## C. MATERIALS CLASSIFICATION AND ANALYSIS

21. Provide the following information for samples taken during the boring operation:
  - a. textural classification (U.S.D.A. system)
  - b. particle size distribution curves for representative samples
  - c. coefficient of permeability - based on field and (or) laboratory determinations
  - d. ion-exchange capacity and ability to absorb and "fix" heavy metal ions

## D. HYDROLOGY

22. Provide the following information regarding the hydrologic flow system in the area of the site:
  - a. Depth to water in boreholes at time of boring completion and periodic measurements until the water level has stabilized.
  - b. Rate(s) and direction(s) of ground-water movement.
  - c. A narrative description (with diagrams) of the design and installation procedures for all piezometers installed at the site. This shall include both water-level measuring piezometers and those installed for permanent use as water-quality monitoring points.
  - d. An analysis of the background ground-water quality, as per those constituents listed in the Instructions. Attach a copy of the laboratory report.
  - e. An outline of the procedures, devices, and personnel to be employed for the collection of periodic ground-water samples from the monitoring point(s) installed at the site.



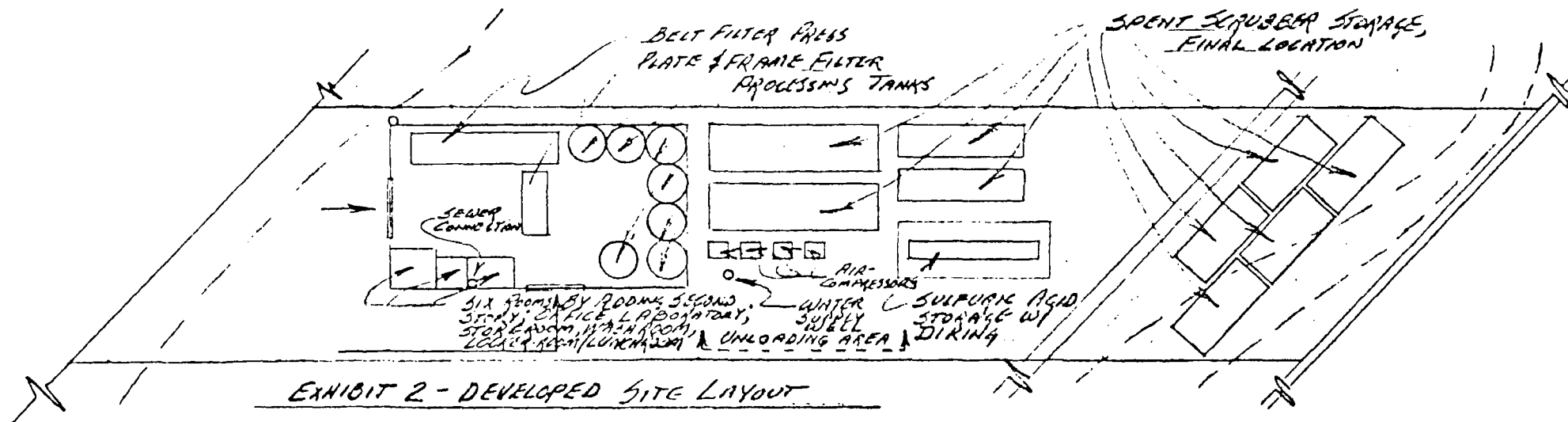
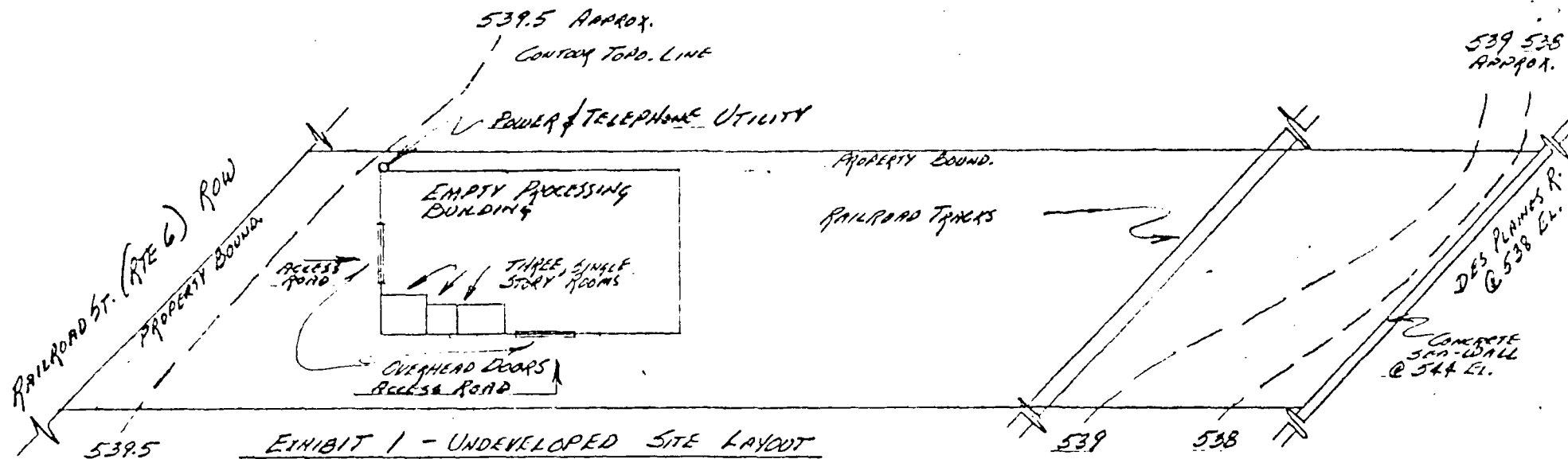
PART IV - CONSTRUCTION PLANS  
AND SPECIFICATIONS

A. SITE DEVELOPMENT PLAN

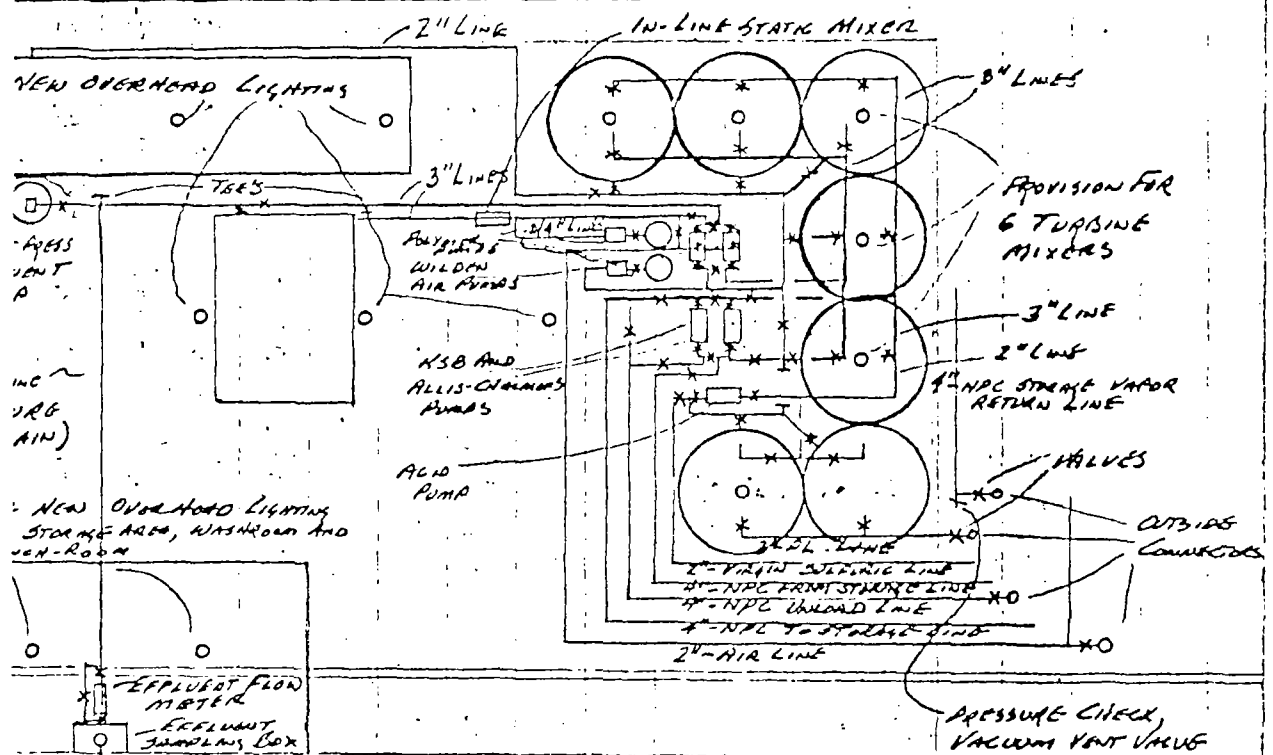
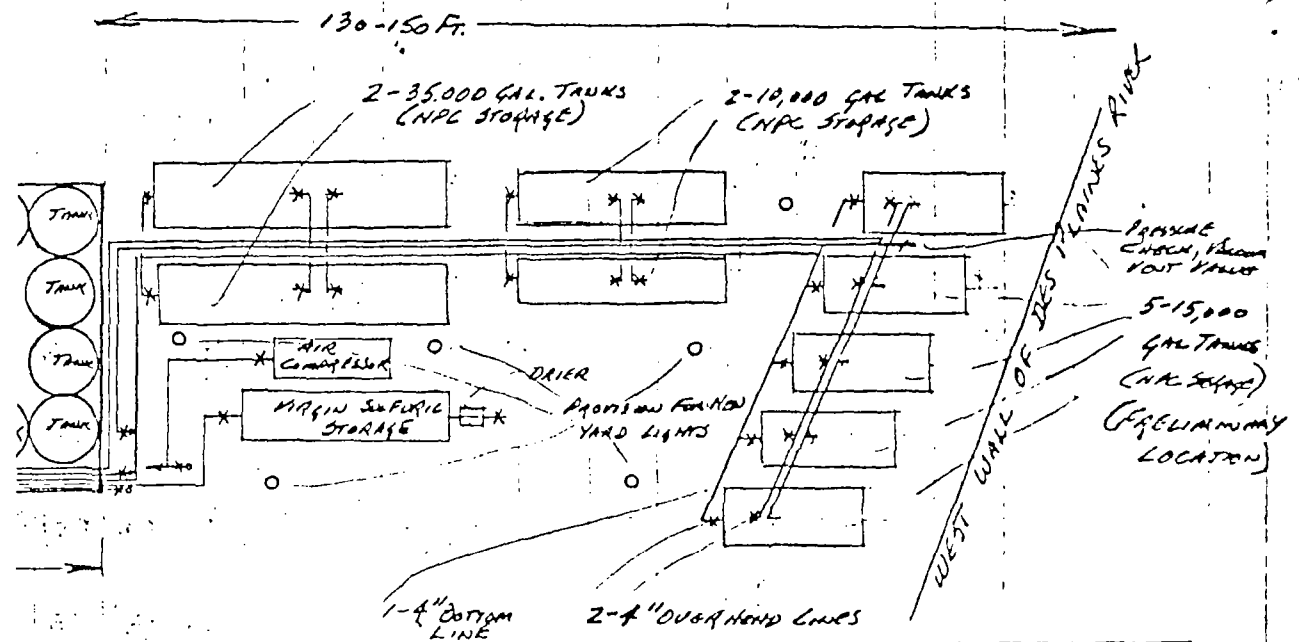
23. Provide a detailed topographic map of the existing site (Scale 1" = 200' or larger) showing 5-foot contour intervals on sites (or portions thereof) where the relief exceeds 20 feet, and 2-foot contour intervals on sites (or portions thereof) having less than 20 feet of relief. This map should show all buildings, ponds, streams, wooded areas, bedrock outcrops, underground and overhead utilities, roads, fences, culverts, drainage ditches, drain tiles, easements, streets, any other item of significance, including legal boundaries. *(SEE EXHIBIT 1)*

Show the location and elevation of borings as described in Part III - 19, 20.

24. Provide a separate map, at the same scale as that above, of the developed site showing the following: *(SEE EXHIBITS 2, 4 & 5)*
- a. All changes in topography dictated by design and operational factors.
  - b. All surface features (as specified in IV - A - 23) both unaltered and modified, and installed as part of the facility. This shall include all new construction with location plans for berms, dikes, dams, earth barriers, surface drainage ditches, drainage devices, (culverts, tiles), fencing, access roads, entrance(s), utilities, buildings, sanitary facilities, monitoring well(s), streams, ponds, mines, and any other special construction as may be required to comply with the provisions of the Rules and Regulations.
  - c. Earth barriers, berms, dikes and other barriers, including essential dimensions of each.
25. Provide a topographic map of the closed and covered site showing final contours, with an interval of 5 feet if relief is greater than 20 feet, and intervals of 2 feet if relief is less than 20 feet. *(NOT APPLICABLE)*
26. Provide plan views (Scale 1" = 200') and cross sections of the leachate collection and treatment system, if utilized, including the following information: *(NOT APPLICABLE)*
- a. Type, location and construction of subsurface collection system, and all attendant devices.
  - b. Location, dimensions, volume, and surface elevation of treatment lagoon(s), if used.
  - c. Detailed written narrative of the method and processes of the treatment system, and program for monitoring the performance and effectiveness of the treatment system.
  - d. Discharge point(s) of effluent.



NOTE: EXHIBITS 1 & 2 DRAWN TO SCALE OF 1 IN. = 40 FT.  
DEM/C; 10/8/80  
EXHIBITS 4 & 5 SHOWN DETAILED LAYOUT, NOT TO SCALE



NOTE: FOR BID PURPOSES, ASSUME INSIDE PIPING IS SCH. 80 PVC, AND OUTSIDE PIPING IS EITHER SCH 80 PVC OR BLACK IRON.

DEMC 9/22/80

B. SCHEDULE OF CONSTRUCTION

27. Attach a typewritten narrative supplemented by indications on the plans of the sequence of areas to be developed. Estimate the date of beginning and ending of each phase of construction and operation. *(SEE ATTACHED)*

C. CONSTRUCTION REQUIREMENTS

28. Attach a typewritten narrative supplemented by indications on the plans of provisions to be made for: *(SEE ATTACHED)*
- a. Prevention of surface-water pollution.
  - b. Control of gas migration. *(NOT APPLICABLE)*
  - c. Elimination of flood hazard, if any.
  - d. Employee facilities.
  - f. Measuring quantity of waste delivered to the site.

PART V - OPERATING PLAN

A. SOURCE AND VOLUME

29. Indicate the estimated quantity of each of the following sources and types of waste the facility will handle during each day of operations; each week of operation; each year of operation. Specify any additional information regarding refuse source and quantity.

<u>SOURCE</u>	<u>TYPE</u>	<u>DAILY QUAN.</u>	<u>WEEKLY QUAN.</u>	<u>ANNUAL QUAN.</u>
a. Residential	_____	_____	_____	_____
b. Commercial	_____	_____	_____	_____
c. Industrial	<u>LIQUID</u>	<u>20,000 To 30,000</u> <u>GALLONS</u>	<u>140,000 To 175,000</u> <u>GALLONS</u>	<u>7.3 - 9.1 MIL GAL</u>
d. Agricultural	_____	_____	_____	_____
e. Other (Describe)	_____	_____	_____	_____

B. OPERATING REQUIREMENTS

30. Attach a typewritten description of provisions for: *(SEE ATTACHED)*
- a. Personnel for supervision and operation
  - b. Traffic control

- c. Designation of unloading area
- d. Dust control
- e. Odor control
- f. Management of surface water
- g. Erosion control
- h. Monitoring program for gas (*NOT APPLICABLE*)
- i. Reuse and recycling operations

31. Provide a list of equipment to be used for the operation:

ITEMS	MODEL NUMBER	NO. OF UNITS IN OPERATION	DESCRIPTION
STORAGE TANKS	—	10	170,000 GAL TOTAL STORAGE
PROCESS TANKS	—	7	45,000 GAL PROCESSING CAPACITY
TRACTOR TRAILER	FORD, AERO	1	5,000 GAL CAPACITY
PLATE & FRAME FILTER PRESS	SHRIVER	1	600 FT <sup>2</sup> FILTER AREA, 54 FT <sup>3</sup> FILTER CAKE CAPACITY
BELT FILTER PRESSES	WICKHAM	1	2 METER WIDTH PRESSES WITH STAINLESS STEEL BELT
AIR COMPRESSORS	—	4	80-100 HP EQUIVALENT
UTILITY TRACTOR	NEW HOLLAND	1	1 TON CAPACITY
MISC. MIXERS, PUMPS, ETC.	—	15-20	PUMPS OF SIZE FROM 1/2" TO 3"
PICK-UP TRUCK	CHEVROLET	1	3/4 TON CAPACITY

#### PART VI - NOTICE / LAND USE

32. In order that notice of intent be sent to those affected by this application, you shall provide these names and addresses to the Agency: (*SEE ATTACHED*)

- a) State's Attorney of the county in which the site is located.
- b) Chairman of the County Board of the county in which the site is located.
- c) Each member of the General Assembly from the Legislative district in which the site is located. (Three Representatives, One Senator)

(194)

PART IV, B. SCHEDULE OF CONSTRUCTION

	<u>Current Status</u>	<u>Estimated Completion</u>
27. Sewer	Complete	Complete
Plumbing & Piping	Underway	Nov. 30, 1980
Electrical	Underway	Dec. 15, 1980
Tank foundations	Underway	Oct. 30, 1980
Tank modifications	Underway	Oct. 30, 1980
Steelwork	Not begun	Nov. 30, 1980
Carpentry	Underway	Oct. 30, 1980
Insulation, heat tracing	Not begun	Dec. 15, 1980
Earth moving	Not begun	Oct. 30, 1980

C. CONSTRUCTION REQUIREMENTS

28.

a. PREVENTION OF SURFACE-WATER POLLUTION: Spills on the outside of the processing building will not be possible because the new permanent facility includes a completely enclosed vapor-tight filling and transfer system. Spills on the inside of the building will be diked-off from the outside premises and will be either recycled to the process through sump pumps and (or) wet vacuums or, when appropriate, will be discharged to the sewer system. No spills inside or outside, can find their way to surface water because of the site topography which includes a 5 to 6 foot high sea-wall along the Des Plaines River.

c. ELIMINATION OF FLOOD HAZARD, IF ANY: Flooding hazard from the Des Plaines River is alleviated by the relatively high sea-wall and the level regulation that is provided on the river by a series of locks and dams, the closest of which is located one-half mile south of the PAP site. Flooding hazard from overland runoff and sewer surcharges has been minimized by elevating all PAP storage tanks above the 100 year flood level and by situating the processing facility on the upland portion of the property.

d. EMPLOYEE FACILITIES: The new employee facilities are indicated on Exhibit 2 and include a new washroom facility including a shower and a new locker-room and lunch-room facility. An existing, first floor shower facility has been preserved as a safety shower.

f. MEASURING QUANTITY OF WASTE DELIVERED TO THE SITE. Spent caustic scrubbing waste liquor is measured both by manifest procedures and by a flow-meter monitoring sewer flow. Spent pickle liquors or etchants are either measured by manifests or bills of lading and are also included in sewer flow-meter monitoring. Concentrated acid, when used, is measured by bills of lading and by sewer flow-meter.

PART V, B. OPERATING REQUIREMENTS, 30.

- a. PERSONNEL FOR SUPERVISION AND OPERATION: At present PAP employs 9 operating personnel, 2 trucking personnel, 1 manager and 2 partnership representatives. Operation is 5 to 6 days per week 24 hours per day. These hours may reduce when PAP permanent facilities are completed.
- b. TRAFFIC CONTROL: Traffic control is not a problem on-site inasmuch as only one tractor-trailer is required for transport. Most transporting is done during the evening and early morning hours to minimize the effects of traffic congestion.
- c. DESIGNATION OF UNLOADING AREA: An area is so designated in Exhibit 2. This provision allows for the efficient unloading of all incoming liquid materials.
- d. DUST CONTROL: Dust control has been accomplished at the PAP facility by grading the yard property with coarse crushed limestone.
- e. ODOR CONTROL: Odor control for the spent caustic scrubbing solution is accomplished in the permanent installation by the totally enclosed filling, transferring and storage system. Odor control during processing is accomplished by the inherent capabilities of the chemistry involved in the process, ie. sulfides are tied-up as ferrous or other metallic sulfides while the organic odors are markedly reduced by a combination of coprecipitation and adsorption of the odorous constituents on the metallic sulfides and hydroxides thus reducing volatility and odor potential.

The oily-float phase, that is a minor constituent of the spent caustic scrubbing solution, is odorous. PAP collects this material separately and sells it as fast as it accumulates to an organic reprocessor. Only a small quantity is kept in storage at any one in order to minimize odor potential. Except for an occasional housekeeping problem, PAP has had success in recent weeks in containing odor. The immediate neighbors to the north and to the south are aiding PAP in identifying problems if and when they exist. PAP then takes prompt action to find and eliminate source of the problem. This form of cooperation has been underway for approximately three weeks.
- f. MANAGEMENT OF SURFACE WATER: Surface water in the form of overland runoff flows from west to east across the PAP site ponds against the Des Plaines river sea wall. When the rain ceases, the accumulated ponding slowly disappears due to a combination of evaporation and some infiltration. This characteristic of the overland runoff has been taken into account in the development of the PAP facility.
- g. EROSION CONTROL: Erosion control at the PAP facility has been accomplished by the grading of the yard with coarse, crushed stone.
- i. REUSE AND RECYCLING OPERATIONS: The PAP process is a reuse, recycling process. Spent acids containing metal ions are combined with the spent caustic scrubber solution to yield an innocuous liquid and solid waste that are non-hazardous and which can be ultimately managed with ease. This conserves both virgin acid and virgin caustic as well as virgin metal that would otherwise be required to similarly

PART V. B., 1, (Cont.)

inactivate these wastes. A minor oily constituent is also recovered for further use. As time permits, PAP is also testing the resource potential of the byproduct filter cake material for beneficial use.

The steel and petroleum industry have waste coke and sour water streams similar to the NPC spent scrubber stream. There has been interest expressed by representatives of both industries in a similar application of this reuse PAP technology at other site locations.



## WILL COUNTY

### 1. STATES ATTORNEY

EDWARD PETKA

WILL COUNTY COURT HOUSE

14 WEST JEFFERSON STREET

JOLIET, ILLINOIS 60431

### 2. WILL COUNTY BOARD

TED GRABAVOY, CHAIRMAN

WILL COUNTY COURT HOUSE

14 WEST JEFFERSON STREET

JOLIET, ILLINOIS 60431

STATE LEGISLATORS  
39th Legislative District

1. STATE SENATOR

ROBERT W. MITCHLER  
549 STATE CAPITOL BLDG.  
SPRINGFIELD, ILLINOIS 62706

2. REPRESENTATIVES

WILLIAM KEMPINERS  
628 STATE CAPITOL BUILDING  
SPRINGFIELD, ILLINOIS 62706

ALLAN L. SCHOEBERLEIN  
2002 STRATTON BUILDING  
SPRINGFIELD, ILLINOIS 62706

LAWRENCE MURPHY  
2126 STRATTON BUILDING  
SPRINGFIELD, ILLINOIS 62706

MUNICIPALITIES WITHIN THREE (3)  
MILE RADIUS OF SITE

CITY of JOLIET  
NANCY VALLERA, CLERK  
150 W. JEFFERSON STREET  
JOLIET, ILLINOIS 60431

CITY of CREST HILLS  
ROBERT CONWAY, CLERK  
1610 PLAINFIELD ROAD  
CREST HILLS, ILLINOIS 60435

VILLAGE OF ROCK DALE  
RALPH E. WOLZ, CLERK  
1013 OTIS AVENUE  
ROCK DALE, ILLINOIS 60436

## ADJACENT LAND OWNERS

1. Joliet Project Office  
U. S. ARMY CORPS OF ENGINEERS  
622 RAIL ROAD STREET  
Joliet, Illinois 60434
2. CHARLES BORONI  
1015 HELEN AVENUE  
Joliet, Illinois 60433

CITY OF JOLIET  
ZONING BOARD OF APPEALS  
150 W. JEFFERSON AVENUE  
JOLIET, ILLINOIS 60431

BRUEL ECKMAN, SECRETARY

CITY OF JOLIET  
PLAN COMMISSION  
150 W. JEFFERSON AVENUE  
JOLIET, ILLINOIS 60431

FRANK ALBERTS, DIRECTOR OF  
COMMUNITY DEVELOPMENT

- d) The clerk of each municipality, any portion of which is within three miles of the site.
- e) Adjacent landowners to the proposed site.
- f) Local zoning and planning agencies.

33. Provide the following documentary evidence sufficient to show: *(See Attached)*

- a) That the facility is located so as to minimize scenic blight, and to avoid damage to archaeological and/or historic sites and areas of significant natural beauty;
- b) That the facility is located so as to avoid any hazards to public health and safety and to minimize any offenses to the senses of persons residing, working, traveling, and/or in any way spending periods of time in the immediate vicinity. Immediate vicinity is here defined to mean a one-mile radius zone adjacent to the boundary of the site;
- c) Taking into consideration the character of the area involved, including the character of surrounding land uses and the trend of development, as well as local comprehensive plans and zoning ordinances, that the facility is located so as to minimize incompatibility with the character of the surrounding area.
- d) That the facility is located so as to avoid causing substantial depreciation of nearby property (taking into consideration, where possible, any mitigation caused by the short proposed life of the site and end use);
- e) That any detriments caused by removal of the site from its former use are out-weighed by the need in the area for such a facility at this location;
- f) That the facility is located so as to avoid a continued adverse effect on existing air and water quality; and
- g) Taking into consideration geological and hydrological factors, the location of the site in relating to sources of solid waste and accessibility to transportation modes, and the technical feasibility and economic reasonableness of disposing of solid waste at the proposed location, that the facility is suited for its intended use.
- h) That access roads and bridges are not limited to preclude necessary vehicular traffic (i.e. proposed size and weight limits).

I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

Signature of Applicant: Donald E. Martine 10/10/80  
Date

Attest: Charles A. Ludwig 10/10/80  
Date

Signature of Engineer: Donald E. Martine 10/10/80

Illinois Reg. No: 62-33014

Attest: Charles A. Ludwig 10/10/80  
Date

Signature of Landowner(s): Robert D. Barker 10-10-80  
Date

Attest: Charles A. Ludwig 10/10/80  
Date

Engineer (Seal)

Signature of other person, technical and non-technical, who has supplied data contained in the submittal.

\_\_\_\_\_  
Signature Date

\_\_\_\_\_  
Reg. No., Position, Title, Etc.

Engineer (Seal)

\_\_\_\_\_  
Signature Date

\_\_\_\_\_  
Reg. No., Position, Title, Etc.

(Seal)

SAS:bls/7055A/sp

card

PART VI, 33

- a. The PAP facility adjoins an industrially used waterway to the east; a major highway, railroad and landfill to the west; vacant property and the I-80 bridge over the Des Plaines River to the north; and vacant property and federal agency (US Army Corps of Engineers) construction operation and maintenance yard facility to the south. This is somewhat obvious by examining the USGS quad sheet. The PAP facility is thus compatible with its setting. There are no archeological or historical sites or areas of natural beauty in near proximity inasmuch as the PAP and surrounding sites are all on filled land as a result of the channelization and containment of the Des Plaines River.
- b. The PAP facility and process produces no hazardous discharges. The earlier PAP odor problem has been contained with good housekeeping practices as documented by the significant reduction in odor complaints registered with the city (Dennis Duffield, Utility Department Director) in recent weeks. The few minor odor incidences were due to housekeeping problems and did not prevail beyond PAP's immediate neighbors. Once notified, the odors were promptly controlled and eliminated.
- c. The PAP facility is compatible with present land-use and I-2 zoning and with Joliet current and future land-use planning. PAP undertook meetings with Joliet's Planning and Zoning Department in the person of Frank Alberts, the Department Director, prior to locating at the present site and was given an unqualified go-ahead.
- d. In view of PAP's compatibility with area land use, zoning and cultural development, it would be inconsistent to expect substantial depreciation as a result of PAP's presence. PAP has also demonstrated an ability to be a good neighbor the majority of the time and is cooperating with the immediate neighbors to eliminate any residual problems. Bob Barker, the PAP site owner, reviewed the nature of PAP's operation with Kenneth King, a local Joliet realtor, prior to leasing PAP the property. Ken King has since represented other owners in real estate transactions in the area.
- e. The PAP site was being used for industrial welding machinery storage prior to PAP leasing the site. The owner of the site, Robert Barker, chose to rent the facility to PAP because his industrial welding business was not prospering. As a result PAP has employed a number of persons, some from the Joliet area, and has introduced a significant quantity of funds into the Joliet-area economy for supplies, services and new construction expenditures. The site, furthermore, is advantageously located for the processing of the spent caustic liquor because of the relative proximity to the source, Northern Petrochemical Company, near Morris, Illinois.
- f. The PAP facility does not have a negative impact on existing water quality as indicated by existing water permits. The earlier odor negative impact on air quality has largely, if not completely, been eliminated as certified by the reduction in odor incidences and complaints. Any residual odor impact will be eliminated as housekeeping is further improved and as the permanent facilities are completed. There will be no continued adverse odor impact on air quality.



PART VI, 33 (Cont.)

- g. The PAP facility is ideally located given the nearby accessibility to the spent caustic scrubber liquor, the available and necessary municipal treatment plant and the across-the-highway availability of a suitable landfill for the management of the by-product filter-cake. The location map documents this statement.
- h. PAP transport has both Interstate 80 and Highway 6 adjoining the facility. Each of these routes efficiently reach the source of the spent caustic scrubber liquor near Morris, Il. Each of these routes is fully capable of carrying the tractor-trailer combination used by PAP as they are arterial highways as indicated on the location map.